

EXHIBIT 155

3/3/2025

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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN FRANCISCO DIVISION

RICHARD KADREY, ET AL.,)
Individual and Representative)
Plaintiffs,) Lead Case No.
v.) 3:23-cv-03417-VC
META PLATFORMS, INC.,)
Defendant.)

* * * HIGHLY CONFIDENTIAL * * *
* * * ATTORNEYS' EYES ONLY * * *
VIDEO-RECORDED 30(b)(6) DEPOSITION OF
MICHAEL CLARK (mitigation)
MONDAY, MARCH 3, 2025
DENVER, COLORADO
2:59 P.M. MST

REPORTED BY KATHY L. DAVIS, CRR, CMR

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1 repetitive and duplicative." Repetitive was the
2 first bullet.

3 Q Mm-hmm.

4 A And then duplicative and repetitive are
5 kind of the same.

6 Q Mm-hmm.

7 A My phrase in my prior testimony feels
8 incomplete, but please ask your question.

9 Q So for the examples of filter data and
10 repetition, he provides copyright information as
11 repetitive data, he provides personal identifying
12 information as repetitive data, right?

13 A We did miss a few bullets, Remove
14 excessive new line crack terms and Remove documents
15 in the token distribution tool.

16 Q Mm-hmm.

17 A Um -- I'm still unclear on the question.
18 I apologize.

19 Q My question is that when you're talking
20 about this script that he wrote to remove data that
21 had a higher likelihood of being regurgitated, among
22 the repetitive data that he removes is also --
23 it's -- is copyright data; is that correct?

24 A Um, among the data that's being removed,
25 the repetitive and duplicative data has a higher

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1 likelihood of being regurgitated. The copyright
2 information and line spacing and emails, part of that
3 is for preventing regurgitation, but also just
4 general stability of the model from -- from a
5 language perspective.

6 Q Okay.

7 MS. POUEYMIROU: Can we turn to Tab 15.
8 This will be 14, Exhibit 14.

9 (Clark Exhibit 14, marked for
10 identification.)

11 Q (BY MS. POUEYMIROU) Are you familiar
12 with this document, Mr. Clark?

13 A I don't remember this document.

14 Q Are you familiar with Meta's source
15 metadata project?

16 A Let me read this to see if I am.

17 MS. POUEYMIROU: How much time?

18 VIDEOGRAPHER: 50 minutes.

19 MS. POUEYMIROU: 5-0?

20 VIDEOGRAPHER: (Nodded.)

21 MS. POUEYMIROU: Thought it was 10.

22 Almost gave me a heart attack.

23 (A discussion was had off the record.)

24 A Okay.

25 Q (BY MS. POUEYMIROU) Okay. So the

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1 concern about source metadata leaking leads to Meta
2 employees talking about whether it can be hashed or
3 unhashed in use cases; is that correct?

4 A More than just source metadata leaking as
5 potential harm. What's -- what's the question?

6 Q My question is, they're trying to figure
7 out a safe way to train and source metadata without
8 risking IP or brand safety. Is that -- is that fair
9 to say?

10 MR. WEINSTEIN: Object to form.

11 A With the -- going back to Exhibit 13, it
12 is much more than just leakage of info. It is also
13 training stability and performance, that what does
14 either the hash or the raw metadata introduce from
15 a -- from a instability perspective into the model?

16 Q (BY MS. POUEYMIROU) Okay. I recognize
17 that, but another consideration is about IP and brand
18 safety; is that correct?

19 A That is one of the three that is listed.

20 Q Okay. And so the document that you now
21 have before you -- this is Exhibit 14 -- is entitled
22 Source Metadata Strategy. Do you see that?

23 A I do see that.

24 Q And I had some questions about that.
25 First, are you familiar with this source metadata

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1 project at Meta?

2 A Personally, I was familiar that this was
3 a -- this was work that was being evaluated.

4 Q And why were you personally familiar with
5 that?

6 A Just in -- working in generative AI and
7 seeing other -- other projects that were in flight is
8 how I'm familiar -- or were in the works is why I was
9 familiar with it.

10 Q And how did you understand the project?

11 A I understood the project as, Could adding
12 source metadata to the model help validate where we
13 see issues or regression in certain types of
14 performance, know where that came from, but also from
15 an academic perspective in trying to get to a place
16 to where as -- the question of, Was Abraham Lincoln a
17 president, where that knowledge came from.

18 Q So the -- the metadata that Nikolay
19 Bashlykov had stripped from LibGen, for example, was
20 metadata that Meta is now considering how it can
21 safely train on; is that correct?

22 MR. WEINSTEIN: Object to form.

23 A The data that Mr. Bashlykov's script
24 removed was a subset of the overall data that was
25 being tested and evaluated as part of the source

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1 metadata strategy. However, in looking and comparing
2 this data, the data in Mr. Bashlykov's were where
3 lines contained that --

4 (Weather noise was heard.)

5 THE DEPONENT: Is that all wind?

6 MS. POUEYMIROU: It sounds like it.

7 MR. WEINSTEIN: Okay.

8 A Okay. Apologies. To get back to
9 answering the question, what Mr. Bashlykov stripped
10 out were individual lines --

11 Q (BY MS. POUEYMIROU) Mm-hmm.

12 A -- but not actually the full set of
13 metadata or source metadata that would have been
14 needed to have filled in -- and if I look at the
15 example, Title, Type, Host Name, URL, Date,
16 Generator, Source, Media --

17 Q Mm-hmm.

18 A -- Media Bias, and other information to
19 fill out the metadata fields.

20 Q So what's the URL when you are -- you've
21 gotten your data from LibGen? Will that be in the
22 URL?

23 A This was -- the section I just read was
24 specific to Common Crawl.

25 Q Okay. And so if you go to the next page,

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1 documents from other URLs?" What is this concern
2 about people figuring out the hash associated with
3 Wikipedia?

4 MR. WEINSTEIN: Object to form.

5 A I would have to speculate that the harm
6 is going back to releasing information about the data
7 mix that was used to build out the model. I believe
8 that comment was from Eric Smith, not Soumya.

9 Q (BY MS. POUEYMIROU) Oh, it looked like
10 it was on the back.

11 A Oh, I was on 81207.00005.

12 Q Yeah.

13 A Okay. Eric Smith had made that comment,
14 just for accuracy.

15 Q Oh, okay.

16 So the leakage of source metadata
17 exposing to the public what Meta had trained on --

18 MR. WEINSTEIN: Object to form.

19 A The proprietary data mix that was used
20 for developing the model.

21 Q (BY MS. POUEYMIROU) And what do you mean
22 by "proprietary data mix"?

23 A The combination of data that was
24 developed -- the combination of data -- the exact
25 combination of data that was used to train the model.

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1 Q How would -- how would a person know the
2 combination or the data mix of your data --

3 MR. WEINSTEIN: Object to form.

4 A I --

5 Q (BY MS. POUHEYMIROU) -- as opposed to
6 just data that was trained on?

7 MR. WEINSTEIN: Object to form.

8 Q (BY MS. POUHEYMIROU) I have always
9 thought of data mix in this case as how much of one
10 data mix compared -- one dataset compared to another.
11 Are you just talking about the data that Meta trained
12 on being released to the public?

13 A The com- -- the exact combination of what
14 datasets and/or data Meta trained on for that model.

15 Q How does the -- how does the training on
16 the title and author of a work --

17 MR. WEINSTEIN: Object to form.

18 MS. POUHEYMIROU: I didn't finish.

19 MR. WEINSTEIN: Oh, sorry. Sorry about
20 that.

21 Q (BY MS. POUHEYMIROU) -- expose a data
22 mix?

23 MR. WEINSTEIN: Object to form, scope.

24 A The -- only the -- as the motivation
25 said, the reason that you would train on it is to

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1 make it available from an explainability or to
2 improve the quality from a factuality perspective.

3 And so there's no sense in training -- in
4 adding additional data that can't be used, which
5 therefore exposes that data.

6 Q (BY MS. POUEYMIROU) So I'm trying to
7 understand, though, your point about proprietary
8 datasets. Are you saying that LibGen is Meta's
9 intellectual property and if training on source
10 metadata from LibGen, which then gets regurgitated,
11 it would expose?

12 MR. WEINSTEIN: Object to form.

13 A Just to -- I believe that's a
14 misclarification of the phrase that I used. It's the
15 proprietary data mix, the combination of what data
16 was used to train not the data itself being
17 proprietary.

18 Q (BY MS. POUEYMIROU) So you're saying the
19 fact that Meta trained on Common Crawl and Wikipedia
20 and Substack and Archive and . . . You're saying
21 that is the concern, that that would be released to
22 the public?

23 MR. WEINSTEIN: Object to form.

24 A That would be a -- that is a potential
25 example, yes.

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1 Q (BY MS. POUEYMIROU) But didn't Meta
2 speak openly about its use of Common Crawl and other
3 datasets in its published papers?

4 MR. WEINSTEIN: Object to form. Outside
5 the scope.

6 A It only spoke about that in LLaMA 1,
7 which was a research release only, and not in any
8 other models after. That was the one mitigation that
9 I forgot in my list when I read them off, was that --
10 to not share that data mix, to not share the data mix
11 as part of one of the mitigations.

12 Q (BY MS. POUEYMIROU) Okay. And so your
13 testimony is that by removing the source metadata,
14 Meta was able to conceal what it trained on because
15 by training on source metadata, the regurgitation
16 risk was higher?

17 MR. WEINSTEIN: Object to form.

18 A I believe that's a mischaracterization of
19 my testimony as the source metadata document that was
20 listed here was adding additional data into the
21 training mix and not taking it out.

22 Q (BY MS. POUEYMIROU) Was that --

23 A And --

24 Q -- because it had first been taken out?

25 MR. WEINSTEIN: Object to form.

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1 A This -- sorry. I wasn't complete with my
2 answer. Do you mind asking the original question?

3 Q (BY MS. POUEYMIROU) Sure. The decision
4 to add source metadata to training is predicated on
5 the fact that Meta had already removed source
6 metadata --

7 MR. WEINSTEIN: Object to form.

8 Q (BY MS. POUEYMIROU) -- from training; is
9 that right?

10 MR. WEINSTEIN: Sorry. Object to form.
11 Lacks foundation.

12 A If I look at the examples from -- which
13 were in 65250 from what Mr. Bashlykov had removed,
14 this information is incomplete in how it's structured
15 and was not trained in a structured way that could
16 have been used in the same way as the source metadata
17 strategy. This was removing specific things where
18 they were placed in the doc that were not structured
19 or in a way that could actually help what the
20 motivation of the test that was being done around the
21 source metadata strategy was, which, to the best of
22 my knowledge, was not actually pursued because of
23 challenges it created in both the performance and
24 stability of the model when it was added.

25 Q (BY MS. POUEYMIROU) And also with

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1 respect to --

2 A The reasons it was not chosen is it
3 created too much regression, added too much
4 additional volume, which you can see reflected in the
5 comments of data that wasn't actually usable as part
6 of inference and was therefore not pursued because of
7 the challenges around performance and stability of
8 the model.

9 Q You're saying that with respect to
10 personal identifying information too? That was why
11 it was removed?

12 MR. WEINSTEIN: Object to form.

13 A We were just talking about the source
14 metadata strategy project, which was explicitly
15 adding multiple structured fields into the model.
16 The PII that was removed as part of Mr. Bashlykov's
17 script was to prevent repetitive personal information
18 from being able to be regurgitated about private
19 individuals. That might have been email or other
20 kinds of PII.

21 Q (BY MS. POUEYMIROU) And the use of that
22 script to remove the copyright information was also a
23 regurgitation concern?

24 MR. WEINSTEIN: Object to form.

25 A That was both regurgitation, plus the

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1 repetitive characters of copyright and the C -- the
2 copyright mark -- copymark would affect the
3 performance of the model as well because that would
4 be very much repetitive and become part of outputted
5 responses, but not necessarily adjacent to
6 copyrighted information.

7 Q (BY MS. POUEYMIROU) Okay.

8 MS. POUEYMIROU: Can we pull out 23.

9 (Clark Exhibit 15, marked for
10 identification.)

11 A Are we switching topics?

12 Q (BY MS. POUEYMIROU) We're switching
13 documents.

14 A Okay.

15 Q The topic is mitigation, though. Now,
16 this is a multipage document. I'm only going to be
17 asking about parts later on, so just take your time.

18 MS. POUEYMIROU: This is Exhibit --

19 THE REPORTER: 15.

20 Q (BY MS. POUEYMIROU) -- 15. All right.
21 I want to look at the page ending in 2225. Do you
22 want to take a look at that page?

23 MS. POUEYMIROU: How much time do we
24 have?

25 VIDEOGRAPHER: 24 minutes.

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1 STATE OF COLORADO)

2)ss. REPORTER'S CERTIFICATE

3 COUNTY OF DENVER)

4 I, Kathy L. Davis, do hereby certify that I am a
5 Registered Professional Reporter within the State of
6 Colorado; that previous to the commencement of the
7 examination, the deponent was duly sworn to testify
8 to the truth.

9 I further certify that this deposition was taken
10 in shorthand by me at the time and place herein set
11 forth, that it was thereafter reduced to typewritten
12 form, and that the foregoing constitutes a true and
13 correct transcript.

14 I further certify that I am not related to,
15 employed by, nor of counsel for any of the parties or
16 attorneys herein, nor otherwise interested in the
17 result of the within action.

18 In witness whereof, I have affixed my signature
19 this 4th day of March, 2025.

20

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24

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Kathy L. Davis
Certified Realtime Reporter